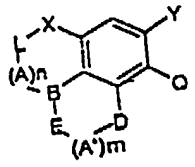
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

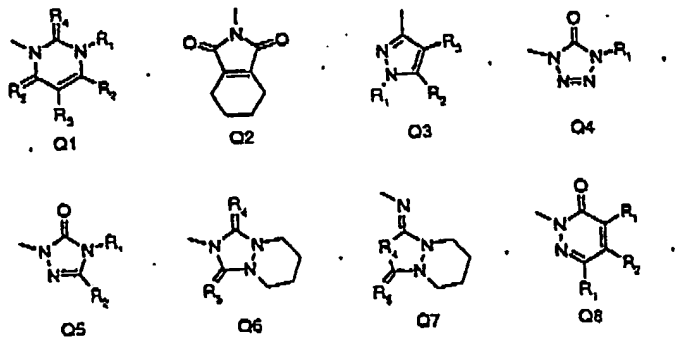
LISTING OF CLAIMS:

1. (currently amended): A compound represented by the formula (I) or its salt:



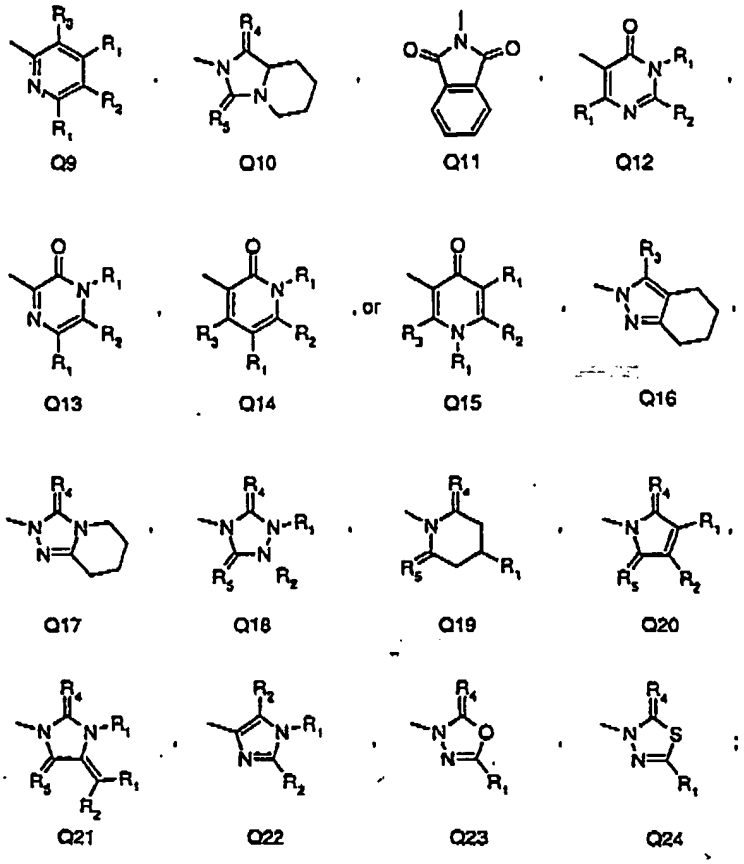
I

wherein Q is a heterocycle selected from the group consisting of Q I to Q24:



Q1 Q2 Q3 Q4

Q5 Q6 Q7 Q8



wherein R_1 is hydrogen, alkyl, haloalkyl, alkenyl, alkynyl, amino, alkoxyalkyl, acetyl, alkoxycarbonylamino, alkylcarbonylamino or alkoxycarbonyl;

R_2 is alkyl, haloalkyl, alkoxy, haloalkoxy or unsubstituted or substituted phenyl;

R_3 is hydrogen, halogen, nitro, amino, alkylamino, haloalkylamino, cyano or amide;

R_4 and R_5 are independently oxygen, sulfur or imino;

Q6, Q7, Q 10, Q 16 or Q 17 may be unsaturated containing one or two double bonds in the 6-membered ring;

Y is hydrogen or halogen;

-L-X- is ~~-O-, -S-, -S(O)-, -S(O)$_2$-, -CR$_6$R$_7$-,~~ -CR$_6$R$_7$-O-, ~~-O-CR$_6$R$_7$-,~~ or -CR$_6$R$_7$-S-, ~~-S-CR$_6$R$_7$-, -CR$_6$R$_7$-S(O)-, -S(O)-CR$_6$R$_7$-, -CR$_6$R$_7$-S(O)$_2$-, -S(O)$_2$-CR$_6$R$_7$-, -CR$_6$R$_7$-CR$_6$R$_7$-, -CR$_6$=CR$_7$-, -NR$_6$-, -CR$_6$=N-, -N=CR$_6$-, -N=N-, -CR$_6$R$_7$-NR$_6$- or -NR$_6$-CR6R$_7$-;~~

A is ~~-O-, -S-, -S(O)-, -S(O)2-, -NH-,~~ -C(O)- ~~-, -C(S)-, -C(NH)- or -CR$_6$R$_7$-~~;

A' is ~~-O-, -S-, -S(O)-, -S(O$_2$-, -NH-,~~ -C(O)- ~~-, -C(S)-, -C(NH)- or -CR$_{10}$R$_{11}$-;~~

n is an integer of ~~0 to 2~~1;

m is an integer of ~~0 to 2~~1;

B is N, ~~-CH-, -C-, or -N$^+$-~~;

E is ~~a bond, -O-, -S-, -S(O)-, -S(0)$_2$-, -NH-, -C(O)-, -C(S)-, -C(NH)-,~~ -CR$_{12}$R$_{13}$-, ~~-CR$_{12}$R$_{13}$-CR$_{12}$R$_{13}$-, -CR12=CR$_{13}$-, =CR$_{12}$- or -NR$_{12}$-~~;

D is -NR-, ~~-N=CR$_{14}$-, -O-, -S-, -S(O)-, -S(O)$_2$-, -CR14R15- or -CR$_{14}$=CR$_{15}$-~~;

R$_6$ and R$_7$ are independently hydrogen or alkyl;

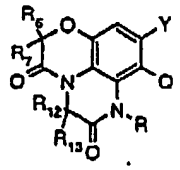
~~R$_6$, R$_7$, R$_8$, R$_9$, R$_{10}$, R$_{11}$,~~ R$_{12}$, and R$_{13}$, ~~R$_{14}$ and R$_{15}$~~ are independently hydrogen, ~~halogen, hydroxy, cyano, nitro, amino,~~ alkyl, alkenyl, ~~alkynyl, cycloalkyl,~~ or phenyl, ~~benzyl, aryl, heteroaryl, alkoxy, haloalkoxy, aryloxy,~~ heteroaryloxy~~, alkylcarbonyl, arylcarbonyl, alkoxycarbonyl, aryloxycarbonyl, aminocarbonylamino, alkyl aminocarbonylamino, aryl aminocarbonyl amino, alkoxyalkyl, alkylthioalkyl, alkoxycarbonylalkyl, cycloalkoxycarbonylalkyl, alkylcarbonyloxyalkyl, alkylcarbonylaminoalkyl, alkoxyalkylcarbonylalkyl, heterocycloalkyl, alkylsulfonyl, arylsulfonyl, alkenylcarbonyl, alkynylcarbonyl, cycloalkylcarbonyl, heteroarylcarbonyl, alkylthiocarbonyl, cycloalkyloxycarbonyl, arylthio carbonyl, aryl thiocarbonyl, heteroaryloxycarbonyl,~~

~~aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, heteroarylaminocarbonyl, alkoxycarbonylcarbonyl or arylcarbonylcarbonyl~~ where any of these groups may be substituted with at least one substituent selected from the group consisting of halogen~~,~~ ~~cyano, nitro, amino, dialkylamino, hydroxyl, carboxyl, alkyl, alkenyl, alkynyl, cycloalkyl, alkylcarbonyl, alkylcarbonyloxy,~~ and alkoxy,~~ alkoxycarbonyl, alkylthio, alkylthiocarbonyl, alkoxythiocarbonyl alkylaminocarbonyl, arylaminocarbonyl, alkylsulfonyl, alkenyloxycarbonyl, alkynyloxycarbonyl, aryl, arylcarbonyl, aryloxy, aryloxycarbonyl, arylthio, heteroaryl, heteroaryloxycarbonyl and methylenedioxy, wherein the alkyl moiety or aryl moiety may be substituted with at least one substituent selected from the group consisting of halogen, cyano, nitro, alkyl, alkoxy, haloalkyl, haloalkoxy, alkoxycarbonyl, cycloalkyl, aryl and heterocycloalkyl~~;~~

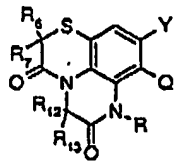
R is hydrogen, or alkyl, ~~alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, alkylcarbonyl, arylcarbonyl, alkoxycarbonyl, aryloxycarbonyl, alkoxycarbonylalkyl, alkoxyalkoxycarbonylalkyl, cycloalkoxycarbonylalkyl, aralkyl, heteroaralkyl, aryloxyalkyl or heteroaryloxyalkyl where any of these groups may be substituted with at least one substituent selected from the group consisting of halogen, cyano, nitro, amino, carboxyl, alkylthioalkyl, hydroxyalkyl, $CON(R_{16})R_{17}$ and $COON(R_{16})R_{17}$;~~

~~R_{16} and R_{17} are independently hydrogen, halogen, alkyl, alkenyl, alkynyl, cycloalkyl. alkoxyalkyl, alkylthioalkyl, alkoxycarbonylalkyl, cycloalkoxycarbonylalkyl, alkylcarbonyloxyalkyl, alkylcarbonylaminoalkyl, alkoxyalkylcarbonylalkyl, phenyl or benzyl where any of these groups may be substituted with at least one substituent selected from the group consisting of halogen, cyano, carboxyl, hydroxy, nitro and amino.~~

2. (original): The compound according to claim 1, wherein the formula (I) is



I-1



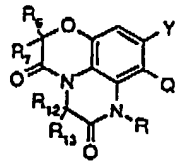
I-2

Wherein Q, R, R_6, R_7, R_{12}, R_{13} and Y are the same as defined in claim 1.

3. (original): The compound according to claim 1, wherein Q is Q 1-5, Q16 or Q17.

4. (original) The compound according to claim 1, wherein Y is fluorine.

5. (original): The compound according to claim 1, wherein the formula (I) is (I-1)



I-1

Wherein Q is Ql or Q3; Y is fluorine; and R, R_6, R_7, R_{12} and R_{13} are the same as defined in claim 1.

6. (original): The compound of claim 5, wherein the compound is 8-[1-Methyl-6-(trifluoromethyl)-2,4-(1 H, 3H)-pyrimidinedione-3-yl]-9-fluoro-5H-pyrazino[1,2.3-de]1,4-benzoxazine-3,6-(2H, 7H)-dione (1-1), 8-[4-Chloro-l-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-5H-pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H, 7H)-dione (1-13), 8-[4-Chloro-5-(difluoromethoxy)-1-methyl-1 H-pyrazole-3-yl)-9-fluoro-5H-pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H, 7H)-dione (1-25), 9-Fluoro-8-(4,5,6,7-tetrahydro-2H-isoindole-l,3-dione-2-yl)-5H-pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H, 7H)-dione (1-37), 8-[4-Chloro-l-methyl-5-(trifluoromethyl)-IH-pyrazol-3-yl]-9-fluoro-2R-methyl-5H-pyrazino[1,2,3-de]-1,4-

benzoxazine-3,6(2H, 7H)-dione (1-48), 8-[4-Chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-2,2-dimethyl-9-fluoro-5H-pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H, 7H)-dione (1-52) and 8-[4-Chloro-5(difluoromethoxy)-1-methyl-IH-pyrazole-3-yl)-9-fluoro-2-R-methyl-5H-pyrazino[1,2,3de] - 1,4-benzoxazine-3,6(2H, 7H)-dione (1-55).

7. (original): A herbicidal composition, characterized in that it contains at least one compound according to claim I and an agricultural adjuvant.

8. (original): A method for controlling undesired vegetation which comprises applying to a locus to be protected a herbicidally effective amount of a compound of claim 1.

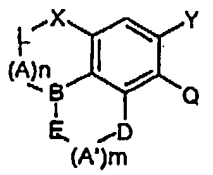
9. (original): The method of claim 8 wherein the locus to be protected is a cereal crop field.

10. (original): The method of claim 8 wherein the compound of claim 1 is applied to soil as a preemergent herbicide.

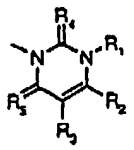
11. (original): The method of claim 8 wherein the compound of claim I is applied to plant foliage.

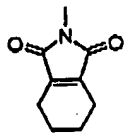
12. (currently amended): A process for preparing a compound represented by the formula (I') or its salt:

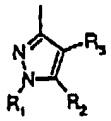
wherein Q is a heterocycle selected from the group consisting of Q1 to Q24:

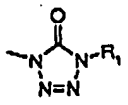


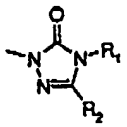
wherein Q is a heterocycle selected from the group consisting of Q1 to Q24:

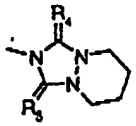

Q1

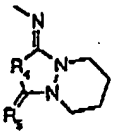

Q2

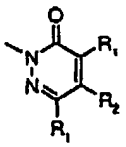

Q3

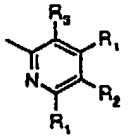

Q4

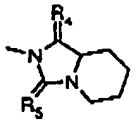

Q5

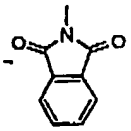

Q6

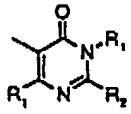

Q7

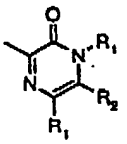

Q8

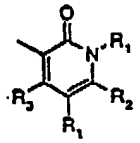

Q9


Q10

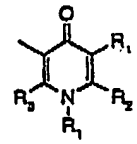

Q11

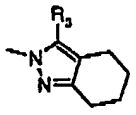

Q12

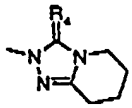

Q13

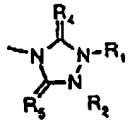

Q14

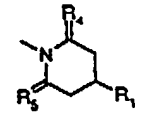
or

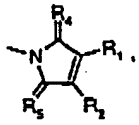

Q15

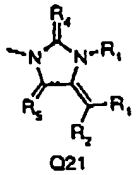

Q16

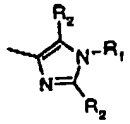

Q17


Q18


Q19


Q20


Q21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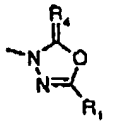
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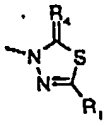

Q24

wherein R_1 is hydrogen, alkyl, haloalkyl, alkenyl, alkynyl, amino, alkoxyalkyl, acetyl, alkoxycarbonyl amino, alkylcarbonylamino or alkoxycarbonyl;

R_2 is alkyl, haloalkyl, alkoxy, haloalkoxy or unsubstituted or substituted phenyl;

R_3 is hydrogen, halogen, nitro, amino, alkylamino, haloalkylamino, cyan or amide;

R_4 and R_5 are independently oxygen, sulfur or imino;

Q6, Q7, Q 10, Q 16 or Q 17 may be unsaturated containing one or two double bonds in the 6-membered ring;

Y is hydrogen or halogen;

-L-X- is ~~-O-, -S-, -S(O)-, -S(O)$_2$-, -CR$_6$R$_7$-,~~ -CR$_6$R$_7$-O-, ~~-O-CR$_6$R$_7$-,~~ or -CR$_6$R$_7$-S-, ~~-S-CR$_6$R$_7$-, -CR$_6$R$_7$-S(O)-, -S(O)-CR$_6$R$_7$-, -CR$_6$R$_7$-S(O)$_2$-, -S(O)$_2$-CR$_6$R$_7$-, -CR$_6$R$_7$-CR$_6$R$_7$-, -CR$_6$=CR$_7$-, -NR$_6$-, -CR$_6$=N-, -N=CR$_6$-, -N=N-, -CR$_6$R$_7$-NR$_6$- or -NR$_6$-CR$_6$R$_7$-;~~

A is ~~-O-, -S-, -S(O)-, -S(O)2-, -NH-,~~ -C(O)-, ~~-C(S)-, -C(NH)- or -CR$_6$R$_7$-~~;

A' is ~~-O-, -S-, -S(O)-, -S(0)$_2$-, -NH-,~~ -C(O)-, ~~-C(S)-, -C(NH)- or -CR$_{10}$R$_{11}$-~~;

n is an integer of ~~0 to 2~~1;

m is an integer of ~~0 to 2~~1;

B is N~~, -CH-, -C-, or -N-~~;

E is ~~a bond, -O-, -S-, -S(O)-, -S(O)$_2$-, -NH-, -C(O)-, -C(S)-, -C(NH)-,~~ -CR$_{12}$R$_{13}$-, ~~-CR$_{12}$R$_{13}$-CR$_{12}$R$_{13}$-, -CR$_{12}$=CR$_{13}$-, =CR$_{12}$- or -NR$_{12}$-~~;

D is -NR-, ~~-N=CR$_{14}$-, -O-, -S-, -S(O)-, -S(0)$_2$-, -CR$_{14}$R$_{15}$- or -CR$_{14}$=R$_{15}$-~~;

R_6 and R_7 are independently hydrogen or alkyl;

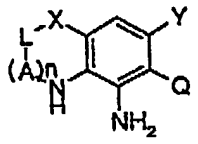
~~R$_6$, R$_7$, R$_8$, R$_9$, R$_{10}$, R$_{11}$,~~ R_{12}, and R_{13}, ~~R$_{14}$ and R$_{15}$~~ are independently hydrogen~~, halogen, hydroxy,~~

~~cyano, nitro, amino~~, alkyl, alkenyl, ~~alkynyl, cycloalkyl~~ or , phenyl, ~~benzyl, aryl, heteroaryl, alkoxy, haloalkoxy, aryloxy, heteroaryloxy, alkylcarbonyl, arylcarbonyl, alkoxycarbonyl, aryloxycarbonyl, aminocarbonylamino, alkylaminocarbonylamino, arylaminocarbonylamino, alkoxyalkyl, alkylthioalkyl, alkoxycarbonylalkyl, cycloalkoxycarbonylalkyl, alkylcarbonyloxyalkyl, alkylcarbonylaminoalkyl, alkoxyalkylcarbonylalkyl, heterocycloalkyl, alkylsulfonyl, arylsulfonyl, alkenylcarbonyl, alkynylcarbonyl, cycloalkylcarbonyl, heteroarylcarbonyl, alkylthiocarbonyl, cycloalkyloxycarbonyl, arylthio carbonyl, aryl thiocarbonyl, heteroaryloxycarbonyl, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, heteroarylaminocarbonyl, alkoxycarbonylcarbonyl or arylcarbonylcarbonyl~~ where any of these groups may be substituted with at least one substituent selected from the group consisting of halogen~~, cyano, nitro, amino, dialkylamino, hydroxyl, carboxyl, alkyl, alkenyl, alkynyl, cycloalkyl, alkylcarbonyl, alkylcarbonyloxy,~~ and alkoxy, ~~alkoxycarbonyl, alkylthio, alkylthiocarbonyl, alkoxythiocarbonyl alkylaminocarbonyl, arylaminocarbonyl, alkylsulfonyl, alkenyloxycarbonyl, alkynyloxycarbonyl, aryl, arylcarbonyl, aryloxy, aryloxycarbonyl, arylthio, heteroaryl, heteroaryloxycarbonyl and methylenedioxy, wherein the alkyl moiety or aryl moiety may be substituted with at least one substituent selected from the group consisting of halogen, cyano, nitro, alkyl, alkoxy, haloalkyl, haloalkoxy, alkoxycarbonyl, cycloalkyl, aryl and heterocycloalkyl~~;

R is hydrogen~~,~~ or alkyl, ~~alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, alkylcarbonyl, arylcarbonyl, alkoxycarbonyl, aryloxycarbonyl, alkoxycarbonylalkyl, alkoxyalkoxycarbonylalkyl, cycloalkoxycarbonylalkyl, aralkyl, heteroaralkyl, aryloxyalkyl or heteroaryloxyalkyl where any of these groups may be substituted with at least one substituent selected from the group consisting of halogen,~~

~~cyano, nitro, amino, carboxyl, alkylthioalkyl, hydroxyalkyl, $CON(R_{16})R_{17}$ and $COON(R_{16})R_{17}$;~~

~~R_{16} and R_{17} are independently hydrogen, halogen, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxyalkyl, alkylthioalkyl, alkoxycarbonylalkyl, cycloalkoxycarbonylalkyl, alkylcarbonyloxyalkyl, alkylcarbonylaminoalkyl, alkoxyalkylcarbonylalkyl, phenyl or benzyl where any of these groups may be substituted with at least one substituent selected from the group consisting of halogen, cyano, carboxyl, hydroxy, nitro and amino~~ which comprises of reacting a compound represented by the formula (II):



II

with a compound selected from the group consisting of an appropriately substituted alkyl halide, alkyl acid halide, aryl acid halide, alkyl acid anhydride, aryl acid anhydride, alkylhaloformate, alkyl isocyanate, aryl isocyanate, alkyl dihalide, aliphatic aldehyde, aliphatic ketone, aromatic aldehyde, and aromatic ketone followed by cyclization.